

Annual Report of Operations for Year $\frac{2016}{}$

To comply with NPDES General Permit No. WAG130000 for Federal Aquaculture Facilities and Aquaculture Facilities Located in Indian Country within the Boundaries of the State of Washington

NPDES # for your Facility:	
WAG-13-0018	
Facility & Owner Information	<u> </u>
Facility Name: Lummi Bay Hatchery	
Operator Name (Permittee): Lummi Indian Business Council	
Address: Physical Address: 3801 "B" Haxton Way Bellingham, WA 98226	Lummi Indian Business Council 2665 Kwina Road Bellingham, WA 98226
Email: thomasmc@lummi-nsn.gov	Phone: 360-312-2289
Owner Name (if different from operator):	
Email:	Phone:
Best Management Practices (
	Yes No
Does the BMP Plan fulfill the requirements of the	e General Permit? Yes No
	he last annual report. Attach additional pages if necessary. itoring and record keeping requirements.

Operations and Production

Total harvestable weight produced in the past calendar year in pounds (lbs): 46,547 Pounds of food fed to fish during the maximum month: 3,406

List the species grown or held at your facility and the annual production of each in gross harvestable weight. If fish were released rather than harvested, list the weight at time of release.

Species	Fish Produced	Receiving Water(s) to which Fish were Released	Month Released/ Spawned
Chinook Salmon	5,560	Lummi Bay/Southern Geogia Strait	May
Coho Salmon	38,995	Lummi Bay/Southern Geogia Strait	April
Chum Salmon	1,992	Lummi Bay/Southern Geogia Strait	April
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Fill in the table below with production numbers from the past year. List the **maximum** amount of fish on-site and the maximum amount of food fed **per month**.

Month	Total Fish (lbs)	Fish Feed (lbs)	Month	Total Fish (lbs)	Fish Feed (lbs)
January	0	0	July	0	0
February	0	0	August	0	0
March	34,799	3,406	September	0	0
April	43,444	1,721	October	0	0
May	5,560	221	November	0	0
June	0	0	December	0	0

Additional Comments:		

Solid Waste Disposal

Describe the solid waste disposed of during the calendar year (including fish mortalities).

Type of Solid Disposed	Date Disposed	Location Disposed
Juvenile Mortalities	As needed	Garbage
Adult Carcasses	As needed	Crab bait
Additional Comments:		

Fish Mortalities

Include a description and the dates of mass mortalities in the past year (more than 5% per week). Attach additional pages, if necessary. Include total mortalities from all causes.

Date	Cause of Deaths	Steps Taken to Correct Problem	Pounds of Fish
NA	NA	NA	NA
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Additional Com	ments:		
	ortalities to report.		

Noncompliance Summary

Include a description and the dates of noncompliance events (including spills), the reasons for the incidents, and the steps taken to correct the problems. Attach additional pages, if necessary.	-
No known noncompliance events to report.	The real Property lies
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Inspections & Repairs for Production & Wastewater Treatment Systems

Date Inspected	Date Repaired	Description of System Inspected and/or Repaired
NA	January	Minor repairs to cracks in raceway walls.

Aquaculture Drugs and Chemicals

Please indicate whether you used each drug/chemical during the past calendar year. Describe the use of each drug/chemical in more detail on the following pages.

Used in the past year?	Drug or Chemical
□ Yes ■ No	Azithromycin
□ Yes ■ No	Chloramine-T: See additional reporting requirements on page 7
□ Yes ■ No	Chlorine
□ Yes ■ No	Draxxin
□ Yes ■ No	Erythromycin - injectable
□ Yes ■ No	Erythromycin - medicated feed
☐ Yes ■ No	Florfenicol (Aquaflor)
□ Yes ■ No	Formalin - 37% formaldehyde: See additional reporting requirements on page 7
□ Yes □ No	Herbicide - describe:
□ Yes ■ No	Hormone - describe:
□ Yes ■ No	Hydrogen Peroxide: See additional reporting requirements on page 7
□ Yes ■ No	Iodine: See additional reporting requirements on page 7
□ Yes ■ No	Oxytetracycline
□ Yes ■ No	Potassium Permanganate: See additional reporting requirements on page 7
□ Yes ■ No	Romet
□ Yes ■ No	SLICE (emamectin benzoate)
□ Yes ■ No	Sodium Chloride - salt
☐ Yes ☐ No ☐	Vibrio vaccine
□ Yes □ No	Other:
☐ Yes ☐ No	Other:

Aquaculture Drugs and Chemicals (cont'd)

Describe all drug and/or chemical treatments that occurred during the year. Fill out the information below for each drug or chemical, plus page 7 for water-borne treatments. Attach additional pages as necessary.

Brand Name: Not a mark	eted product	Generic Name: Vibrio spp. Vaccine		
Reason for use: Prevention	n of disease caused by	Vibrio spp.		
Preventative/Prophylactic As-needed	Total quantity of formulated product per treatment (specify units)2 liters	Total quantity of formulated purpose (specify units): 15.14 lite	roduct used in past year	
Date(s) of treatment: 4-19-16 to 4-26-16			Total number of treatments in past year:	
Maximum daily volume of treated water: 20-40L	Treatment concentration (specify units): 1:10 dilution	Duration and frequency of treat 15 sec. immersion,		
Method of application:	Static Bath Flow-through	☐ Medicated Feed☐ Other (describe):		
Location in facility chemical was used (check all that apply):	☐ Raceways ☐ Incubation building	☐ Ponds ☐ Off-line settling basin Sta	other (describe): and-alone tub	
Where did water treated with this chemical go? (check all that apply):	☐ Discharged w/o treatment ☐ Settling basin	☐ Septic System ☐ Publicly owned treatment works	☐ Other (describe):	
Provide any additional informat	ion about how this chemical was u	used and/or special pollution pre	evention practices during use:	
Brand Name:		Generic Name:		
Brand Name: Reason for use:		Generic Name:		
	Total quantity of formulated product per treatment:	Generic Name: Total quantity of formulated p (specify units);	roduct used in past year	
Reason for use:		Total quantity of formulated p	roduct used in past year Total number of treatments in past year:	
Reason for use: Preventative/Prophylactic As-needed		Total quantity of formulated p	Total number of treatments in past year:	
Reason for use: Preventative/Prophylactic As-needed Date(s) of treatment: Maximum dally volume of	product per treatment:	Total quantity of formulated p (specify units);	Total number of treatments in past year:	
Reason for use: Preventative/Prophylactic As-needed Date(s) of treatment: Maximum dally volume of treated water:	Treatment concentration (specify units):	Total quantity of formulated p (specify units); Duration and frequency of treat Medicated Feed	Total number of treatments in past year:	
Reason for use: Preventative/Prophylactic As-needed Date(s) of treatment: Maximum daily volume of treated water: Method of application: Location in facility chemical was used	Treatment concentration (specify units): Static Bath Flow-through	Total quantity of formulated p (specify units); Duration and frequency of treat Medicated Feed Other (describe):	Total number of treatments in past year: ment(s):	

Aquaculture Drugs and Chemicals (cont'd) Additional Reporting Requirements for Water-Borne Treatments

- If a water-borne treatment was used during the calendar year, Permittees must include detailed records/calculations as an attachment to this Annual Report in order to demonstrate how the maximum effluent concentrations of solution and active ingredient were calculated for each chemical.
- EPA recognizes that water-borne treatments may vary in the volume of the vessels treated, concentration, quantity of product, etc. Permittees must provide the information listed in the following tables for a reasonable worst case (i.e., maximum effluent concentration) scenario, not for each individual treatment.

Static Bath Treatments

- Permittees must submit this information and calculate the maximum effluent concentration for each water-borne chemical used during the past calendar year.
- See also Appendix D for the Chemical Log Sheet.

Static bath freatments			
Tank Volume	Approximately 30	Liters	
Desired Static Bath Treatment Concentration	100,000,000	µg/L	
Volume of Product Needed	2 (+20L clean water)	iters Product	
Maximum Effluent Concentration of: 1) Solution and 2) Active Ingredient	Solution: Disposed into OLSB Active Ingredient: Disposed into OLSB	Specify Units	
Minimum Volume of Total (treated + untreated) Water Discharged from the Facility per day	NA, Disposed into OLSB	Specify Units	
Maximum % of Facility Discharge Treated	NA, Disposed into OLSB % of To	tal Discharge	
Flow	-Through Treatments		
Tank Volume		Liters	
Calculated Flow Rate		Liters/Minute	
Duration of Treatment		Minutes	
Desired Flow-Through Treatment Concentration of Product		μg/L	
Amount of Product to Add Initially	L	iters Product	
Amount of Product to Add During Treatment		mL/Minute	
Total Volume of Product Needed	Li	iters Product	
Maximum Effluent Concentration of:	Solution:		
1) Solution and 2) Active Ingredient	Active Ingredient:	Specify Units	
Minimum Volume of Total (treated + untreated) Water Discharged from the Facility per day			
		Specify Units	
Maximum % of Facility Discharge Treated			
	% of Tot	al Discharge	

Changes to the Facility or Operations

Describe any changes to the facility or operations since the last annual report.	
No changes to report.	
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Signature and Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly evaluate and gather the information submitted. Based on my inquiry of the person or persons, who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Thomas M. Chance	Fisheries Biologist
Printed name of person signing	Title
Then Allen	1/20/2017
Applicant Signature	Date Signed

Submittal Information

Send the complete, signed information, along with any attachments, to the following address:

U.S. EPA Region 10, OWW-191

Washington Hatchery Annual Report

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